PATENT COOPERATION TREATY PCT

REC'D	19	OCT	2001
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

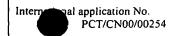
Applicant's or agent's file reference	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary			
P2000134C	Examination Report (Form PCT/IPEA/416)			
International application No.	International filing date (day/month/year)		Priority date (day/month/year)	
PCT/CN00/00254	l	2000(30.08.00)	07 SEP. 1999(07.09.99)	
International Patent Classification (IPC) or				
	IPC7 A61L27	7/52, A61F2/12		
Applicant				
	CAO, I	Mengjun		
This international preliminary exami	nation report has been	prepared by this Internat	ional Preliminary Examining Authority and	
is transmitted to the applicant according	-			
2. This REPORT consists of a total of	3	sheets, including th	ł	
			ns and /or drawings which have been	
amended and are the basis for this rep Section 607 of the Administrative Insti		_	before this Authority (see Rule 70.16 and	
These annexes consist of a total of	2	sheets.		
3. This report contains indications rela	iting to the following iter	ns:	}	
I 🔀 Basis of the report				
II priority				
III Non-establishment of opinion	on with regard to novelty	,inventive step and indu	strial applicability	
IV Lack of unity of invention				
V ⊠ Reasoned statement under A	article 35(2) with regard t	o novelty ,inventive step	or industrial applicability:	
citations and explanations su	apporting such statement			
VI Certain documents cited			}	
VII Certain defects in the interna	ational application			
VIII Certain observations on the	international opplicatior	ı.		
Date of submission of the demand Date of completion of this report				
30 MAR. 2001(30.03.0)1)		SEP. 2001(10.09.01)	
Name and mailing address of the IPEA/CN	J	Authorized officer	重 印	
6 Xitucheng Rd., Jimen Bridge, Haidian D	istrict,		QIU, Jiangvar	
100088 Beijing, China Facsimile No. 86-10-62019451		Telephone No.86-10-62	093037 叶绛	

INTERNATIONAL PRELIMINATION REPORT

Interiona	l application No.
	PCT/CN00/00254

I. E	Basis of the	report	
1. With	_	the elements of the international application: ational application as originally filed iption: 1-4	.as originally filed
	pages	Glad with the laws of	.filed with the demand
I ⊠	pages	filed with the letter of	
\boxtimes	the claims Nos	S:	as originally file
	Nos	, as amended (together with	any statement)under Article 19
	Nos	1-14	filed with the demand
	Nos	filed with the letter of	
\boxtimes	the drawin	ngs:	
	sheets/fig	1-2	as originally filed
	sheets/fig		,filed with the demand
_	sheets/fig	.filed with the letter of	
ليا	pages	nce listing part of the description:	as originally filed
	pages		filed with the demand
	pages	- ,filed with the letter of	
		o the language ,all the elements marked above were available or furnished to the	his Authority in the language in
		ernational application was filed, unless otherwise indicated under this item. were available or furnished to this Authority in the following language	which is:
		age of a translation furnished for the purposes of international search search (under	
	the langu the bangu and/or 55.	age of publication of the international application(under Rule 48.3(b)). age of the translation furnished for the purposes of international preliminary exa.3).	mination (under Ruls Rules 55.2
3. With prelin		any nucleotide and/or amino acid sequence disclosed in the international nination was carried out on the basis of the sequence listing:	application.the international
		in the international application in written form.	
	_	ner with the international application in computer readable form. Subsequently to this Authority in written form.	
		ubsequently to this Authority in computer readable form.	
		ent that the subsequently furnished written sequence listing does not go beyond the n as filed has been furnished.	e disclosure in the international
	The staten furnished.	nent that the information recorded in computer readable form is identical to the v	written sequence listing has been
4.		the description,pages the claims Noa the drawings,sheets/fig	
	-	s been established as if (some of)the amendments had not been made, since they be	nave been considered to go
-		closure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).** ets which have been furnished to the receiving Office in response to an invitation	under Article 14 are referred to
•	his report d	as "originally filed" and are not annexed to this report since they do not conta	
** Any re	placement :	sheet containing such amendments must be referred to under item I and annexed t	o this report.

INTERNATIONAL PRELIMERY EXAMINATION REPORT



Novelty (N)		
- · · · · · · · · · · · · · · · · · · ·	Claims 1-14	YES
	Claims	
Inventive step (IS)	Claims 1-14	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-14	YES
	Claims	



CLAIMS

- 1.A mammary prosthesis made of polyacrylamide hydrogel, comprising shell 2 which is made of medical high polymer elastic material, and polyacrylamide hydrogel 4 filled in said shell 2.
- 2.A mammary prosthesis as claimed in claim 1 wherein said medical high polymer elastic material is silicon.
- 3.A mammary prosthesis as claimed in claim 1 wherein said polyacrylamide hydrogel 4 being prepared by adding 2.5-7grams of polyacrylamide dry powder into every 100ml water.
- 4.A mammary prosthesis as claimed in claim 1 wherein the weight percentage of said polyacrylamide hydrogel 4 is: 2.5 8% acylamide, 0.001 3.0% cross-linking agent, 0.001 4.00% catalyst, 0.001 2.00% accelerator, 0.001 2.00% facilitator and the other is sterile secondary distilled water.
- 5.A mammary prosthesis as claimed in claim 4 wherein said cross-linking agent is N, N -methylenebisacrylamide and its homologous compound, or N, N -diallyltartratdiamide, said catalyst is ammonium persulfate or kalium persulfate, said accelerator is sodium

bisulphate or sodium metasulphite, said facilitators comprise triethanolamide, triethlamine or their N, N ´ ethylenediamine substances which contains substituting groups.

6.A mammary prosthesis as claimed in claim 5 wherein said shell 2 has a round curved surface.

7.A mammary prosthesis made of polyacrylamide hydrogel comprising a shell 2 that is made of medical high polymer elastic material; wherein said shell 2 is filled with dry powder 3 of polyacrylamide hydrogel whose weight is matched with the volume (ml) of said shell 2, wherein each 100ml volumes of said shell 2 could be filled with 2.5-7 grams of said dry powder, wherein said shell 2 has non-return valve 1.

- 8. A mammary prosthesis as claimed in claim 7 wherein each 100ml volumes of the shell 2 could be filled with 4 grams of said dry powder 3.
- 9.A mammary prosthesis as claimed in claim 7 wherein said medical high polymer elastic material is silicone.
- 10.A mammary prosthesis as claimed in claim 7 wherein said polyacrylamide hydrogel dry powder in weight comprises 2.5 8 units

of acrylamide, 0.001 - 3.0 units of cross-linking agent, 0.001 - 4 units of catalyst, 0.001 - 2.00 units of accelerator, 0.001 - 2.00 units of facilitator.

11.A mammary prosthesis as claimed in claim 10 wherein said cross-linking agent is N, N '-methylenebisacrylamide and its homologous compound, or N, N '-diallyltartratdiamide, said catalyst is ammonium persulfate or kalium persulfate, said accelerator is sodium bisulphate or sodium metasulphite, and said facilitators comprise triethanolamide, triethlamine or their N, N 'ethylenediamine substances which contains substituting groups.

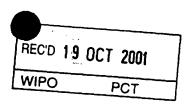
12.A mammary prosthesis as claimed in claim 7 wherein said shell 2 has a round curved surface.

13.A mammary prosthesis as claimed in claim 12 wherein said non-return valve 1 is located in the center of one face of said shell 2.

专利合作条约

PCT

国际初步审查报告 (PCT 条约 36 和细则 70)



申请人或代理人的档案号 P2000134C	关于后续行为 参见"传送国际初步审查报告的通知"(PCT/IPEA/416 表)					
国际申请号	国际申请日(日/月	/年)	优先权日 <i>(日/月/年)</i>			
PCT/CN00/00254 30.8 月 2		0(30.08.00)	07.9 月 1999(07.09.99)			
国际专利分类(IPC)或者国家分类和 IPC 两种分类 IPC7 A61L27/52, A61F2/12						
中请人						
1. 本国际初步审查单位已作出国际初步审查报告并依照条约第 36 条将其传送给申请人。						
2. 本报告共计3页,包括扉页。						
☑ 本报告还有附件,即修改后	的并且作为本报告	基础的说明书	3修改页、权利要求书修改页和/或附图修改。			
页,和/或对本国际初步审查	单位所作出的更正	页(见 PCT 组	則 70.16 和行政规程 607)。			
这些附件共计2页						
3. 本报告包括关于下列各项的内容:						
Ⅰ Ⅰ ☑ 报告的基础						
II						
	告性和工业 空用性的	有音 见				
IV		476.7B				
	创造性或工业实	田性的推断的	生意见;支持这种意见的引证和解释			
VI	、 的地位或工业大) IT [工 [1]] 压 [5] []	上态元,又以卷竹态无间升配和研件			
VII 国际申请中的某些缺陷						
VIII 对国际申请的某些意见						
提交要求书的日期 30.3 月 2001(30.03.0	1)	完成本报告	的日期 10.9 月 2001(10.09.01)			
国际初步审查单位名称和地址						
IPEA/CN		受权官员	_{邱绛燮} 雯邱			
中国北京市海淀区西土城路 6	号(100088)	由话是码。	86-10-62093037 印绛			
传真号: 86-10-62019451		记的 7 阿:	00-10-02073037			

国际事會报告

F	申请号	_
	PCT/CN00/00254	

I.	报告	的基础			
1.	关于	国际申请中各个	个部分: *		
		原始提交的国	际申请。		
	\boxtimes	说明书,		页,按 原始提交的,	
			第	页,随 要求书提交的,	
			第	页,随	
	\boxtimes	权利要求,	第	页,原 始提交的,	
			第	页,按 条约第 19 条修改	的(附有说明)。
				项,随 要求书提交的。	
			第	页,随	
	\boxtimes	附图,	第 1-2 页,原	原始提交的。	
			第页,除		
		M et 45 4 44 e		·	的信件提交的。
		说明书中的原		三 医松垂少相交换	
			郑	页,原始要求提交的, 页,随要求书提交的,	
			弟	贝,随要求书提父的,	44 th 14 48 72 44
			第	页,随	的信件提交的。
2.	的上: 本国[述所有部分,	所使用的语言均为提 位所获得的或向本国 私索而提交的译本所 请公布时所使用的语	是交本国际申请时所使用的语言。	分所使用的语言是,)。
		□ 国际申请□ 与国际申□ 后来以†□ 后来以†□ 已提交了	于中所包含的书写形式 请同时提交的计算机 写形式向本国际初始 算机可读的形式向之 关于后来提交的书写 关于以计算机可读的 容的:	式的序列表。 机可读形式的序列表。 步审查单位提交的序列表。 本国际初步审查单位提交的序列	交的国际申请所公开的范围的说明。
5.		由于(某些)(出的(细则 70.2		治公开的范围,如补充栏所示,因	此本报告是按照如同没有修改的情况作
	本报告	的附件,因为'	它们没有包含修改(细	的替换页,在本报告中被称为"原经 时则 70.16 和 70.17)。 项中指明,并作为本报告的附件。	始提交的",这些替换页不作为
	TE IN C	2.自心打修以的	日次火, 即必 火仕 另【	次了1997,并1727年仅有10时件。	



[V			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
		例规证、创造证实工业实历证的推断证息处; 又持这种意义的分证和	限年
1.	意见		
	新颖性(N)	权利要求 1 — 14	^是
		权利要求	查
	创造性(IS)	权利要求 - 4	足
		权利要求	岱
			
	工业实用性(IA)	权利要求 1 - 14	足
	, ,	权利要求	一
			 '''
2.	引征和解释(细则)	70.7)	
	权利要求 1 至 14 名	符合 PCT 条约第 33 条第 2 至 4 款的规定,因为国际检索报告中引证的	对比文件均没有公
开权	利要求1或7以及它	区们的从属权利要求所要保护的技术方案,并且也没有给出相关的技术。	自 水。
		-	
		•	

权利要求

- 1、一种聚丙烯酰胺水凝胶乳房假体,包括:用聚硅氧烷弹性体制成的壳体 2,充填在所述密封壳体 2内的聚丙烯酰胺水凝胶 4,所述聚丙烯酰胺水凝胶 4由100毫升水加2.5-7克聚丙烯酰胺干粉制备而成,其中,聚丙烯酰胺干粉是将重量百分比2.5-8%的丙烯酰胺、0.001-3.0%的交联剂、0.001-4.00%的催化剂、0.001-2.00%的加速剂、0.001-2.00%的促进剂,加水到100%聚合、洗涤、浸泡、离心脱水、烘干而成。
- 2、根据权利要求 1 所述的乳房假体, 其特征在于,所述交联剂为 N, N´- 乙撑双丙烯酰胺及其同系物或 N, N´二烯丙基酒石酸二酰胺。
- 3、根据权利要求2所述的乳房假体,其特征在于,所述催化剂是过硫酸胺或过硫酸钾。
- 4、根据权利要求 3 所述的乳房假体,其特征在于,所述加速剂可以是亚硫酸氢钠或偏亚硫酸钠。
- 5、根据权利要求 4 所述的乳房假体,其特征在于,所述促进剂包括三乙醇胺或三乙胺及其含取代基的 N, N 乙二胺类。
- 6、根据权利要求 5 所述的乳房假体,其特征在于其中,所述壳体 2 有一个球形曲面。
- 7、一种聚丙烯酰胺水凝胶乳房假体,其特征在于,包括用聚硅氧烷弹性体制成的带单向阀 1 的壳体 2,在所述壳体 2 内置入有其

IPEA/CN 修改页

重量(克)与所述壳体 2 容积(毫升)成一定比例的聚丙烯酰胺水凝胶干粉 3,所述水凝胶干粉 3 重量(克)与所述壳体 2 容积(毫升)的一定比例是每 100 毫升容积 2.5-7 克干粉,所述聚丙烯酰胺干粉是将重量百分比 2.5 - 8%的丙烯酰胺、0.001 - 3.0%的交联剂、0.001 - 4.00%的催化剂、0.001 - 2.00%的加速剂、0.001 - 2.00%的促进剂,加水到 100%聚合、洗涤、浸泡、离心脱水、烘干而成。

- 8、根据权利要求 7 所述的乳房假体,其特征在于,所述水凝胶干粉 3 重量(克)与所述壳体 2 容积(毫升)的一定比例是 100 毫升: 4 克。
- 9、根据权利要求 8 所述的乳房假体, 其特征在于,所述交联剂为 N, N´- 乙撑双丙烯酰胺及其同系物或 N, N´二烯丙基酒石酸二酰胺。
- 10、根据权利要求 9 所述的乳房假体, 其特征在于,所述催化剂是过硫酸胺或过硫酸钾。
- 11、根据权利要求 10 所述的乳房假体, 其特征在于,所述加速剂是亚硫酸氢钠或偏亚硫酸钠。
- 12、根据权利要求 11 所述的乳房假体, 其特征在于,所述促进剂包括三乙醇胺或三乙胺及其含取代基的 N, N 乙二胺类。
- 13、根据权利要求 7-12 所述的乳房假体,其特征在于,所述壳体 2 有一个球形曲面。
- 14、根据权利要求 7-12 所述的乳房假体, 其特征在于, 所述单向阀门1设置在所述圆形袋壳体2一面的中心位置处。